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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/378,648	08/20/1999	ARIANNE THERESE HINDS	BO9-99-032	9387
46919	7590 08/11/2005		EXAMINER	
KONRAD RAYNES & VICTOR, LLP.			CARTER, TIA A	
ATTN: IBM	-			
315 SOUTH	BEVERLY DRIVE, SUI	TE 210	ART UNIT	PAPER NUMBER
BEVERLY HILLS, CA 90212			2626	
			DATE MAILED: 08/11/200	ς.

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		09/378,648	HINDS ET AL.				
		Examiner	Art Unit				
		Tia A Carter	2626				
Period fo	The MAILING DATE of this communication appor	pears on the cover sheet with the c	orrespondence address				
THE   - External efter   - If the   - If NO   - Failure   - Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION.  SIX (6) MONTHS from the mailing date of this communication.  period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period is to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timy within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE!	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) filed on 19 N	lovember 2003:	•				
2a)⊠	This action is FINAL. 2b)☐ This	action is non-final.					
3)□	Since this application is in condition for allowa closed in accordance with the practice under <i>E</i>	nce except for formal matters, pro Ex parte Quayle, 1935 C.D. 11, 45	secution as to the merits is 3 O.G. 213.				
Dispositi	ion of Claims						
4)⊠	Claim(s) 1-40 is/are pending in the application	,					
	4a) Of the above claim(s) is/are withdra						
5)🖂	5) Claim(s) <u>4,5,18,19,31 and 32</u> is/are allowed.						
6)⊠	6) Claim(s) 1-3,6-8,14-17,20,21,28-30,33 and 34 is/are rejected.						
7)🖂	7)⊠ Claim(s) <u>9-13, 22-27, 35-40</u> is/are objected to.						
8)□	Claim(s) are subject to restriction and/o	r election requirement.					
Applicati	on Papers						
9)	The specification is objected to by the Examine	er.					
10)	The drawing(s) filed on is/are: a)□ acc	epted or b) objected to by the E	Examiner.				
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority L	ınder 35 U.S.C. §§ 119 and 120						
12)⊠ a)[	Acknowledgment is made of a claim for foreigr ☑ All b) ☐ Some * c) ☐ None of:	n priority under 35 U.S.C. § 119(a	)-(d) or (f).				
	1. Certified copies of the priority document	s have been received.					
	2. Certified copies of the priority document	s have been received in Application	on No				
	<ol> <li>Copies of the certified copies of the prio application from the International Bureau</li> </ol>	nty documents nave been receive u (PCT Rule 17 2(a))	d in this National Stage				
* S	See the attached detailed Office action for a list	of the certified copies not receive	d.				
13) <u></u>	cknowledgment is made of a claim for domesti	c priority under 35 U.S.C. § 119(e	e) (to a provisional application)				
Si	nce a specific reference was included in the fire 7 CFR 1.78.	st sentence of the specification or	in an Application Data Sheet.				
	<ul><li>CFR 1.76.</li><li>☐ The translation of the foreign language pro</li></ul>	ovisional application has been rec	eived				
14)[] A	cknowledgment is made of a claim for domesti ference was included in the first sentence of the	c priority under 35 U.S.C. §§ 120	and/or 121 since a specific				
Attachment	r(s)						
1) Notice	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413) Paper No(s)				
2) Notice	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Informal Page 1	atent Application (PTO-152)				
J.S. Palent and Tr PTOL-326 (R		etion Summary	Part of Paper No. 8				
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### **DETAILED ACTION**

## **Drawings**

1. The drawings are objected to by the Draftsperson under 37 CFR 1.84(g) for the reasons indicated on the Notice of Draftsperson's Patent Drawing Review submitted with this non-final office action. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

# Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 3 14, 17, 28 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Falk (US. 5760913) in view of Wang (US. 5854882).

Regarding claim 1, Falk discloses a method for managing calibration files in a printing system, comprising:

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Wang discloses printing patches using a screening algorithm and incorporating at least one output appearance factor (Figs. 2-3, col. 8, lines 30-65; fig. 5, col. 9, lines 53-67).

Falk discloses generating a calibration from measured color values of the printed patches mapping a color apace for the printed patches to a color space of a printer used to print the patches (Fig. 1, col. 4, lines 35-58).

Falk disclose associating information with the calibration file indicating the printer and at least one output appearance attribute for the use in selecting one calibration file to use when printing a print job (fig. 1, col. 3, lines 55-65; fig. 6, col. 6, lines 5-65), wherein the at least one output appearance attribute provides descriptive information on at least one output appearance factor incorporated when printing the patches (fig. 5, col. 5, lines 6-29).

It would have been obvious to one skilled in the art at the time of the invention to modify Falk wherein gray scale image processes are used to correct image defects and to adjust image to user desired output.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to combine Wang and Falk to achieve the limitations set forth in claim 1.

Regarding claim 3, Faulk disclose the method of claim 1, wherein the at least one output appearance factor is a member of a set of printing variables consisting of: toner, paper type, environmental factors, desired output, and target printer to emulate (fig. 2, col. 4, lines 12-38).

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Regarding claim 14, Falk discloses a system for managing calibration files in a printing system, comprising:

Falk discloses a computer system (fig. 1, col. 3, lines 39-41).

Falk discloses a printer in communication with the computer (fig. 1, col. 3, lines 42-43)

Falk discloses a storage device accessible to the computer system (fig. 1, col. 3, lines 45-46);

Falk discloses program logic implemented within the computer (fig. 1, col. 3, lines 47-54), comprising:

Wang discloses means for printing patches using a screening algorithm and incorporating at least one output appearance factor (Figs. 2-3, col. 8, lines 30-65; fig. 5, col. 9, lines 53-67).

Falk discloses means for generating a calibration from measured color values of the printed patches mapping a color apace for the printed patches to a color space of a printer used to print the patches (Fig. 1, col. 4, lines 35-58).

Falk disclose means for associating information with the calibration file indicating the printer and at least one output appearance attribute for the use in selecting one calibration file to use when printing a print job (fig. 1, col. 3, lines 55-65; fig. 6, col. 6, lines 5-65), wherein the at least one output appearance attribute provides descriptive information on at least one out put appearance factor incorporated when printing patches (fig. 5, col. 5, lines 6-29).

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Falk discloses means for storing the calibration file and associated information in storage device (fig. 1,col. 3, lines 50-53).

It would have been obvious to one skilled in the art at the time of the invention to modify Falk wherein gray scale image processes are used to correct image defects and to adjust image to user desired output.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to combine Wang and Falk to achieve the limitations set forth in claim 14.

Regarding claim 17, Faulk disclose the system of claim 14, wherein the at least one output appearance factor is a member of a set of printing variables consisting of: toner, paper type, environmental factors, desired output, and target printer to emulate (fig. 2, col. 4, lines 12-38).

Regarding claim 28, Falk discloses an article of manufacture for use in managing calibration files in a printing system, the article of manufacture comprising computer usable media including at least one computer program embedded therein that causes the computer to perform (fig. 1, col. 3, lines 38-65):

Falk **does not discloses** printing patches using a screening algorithm and incorporating at least one output appearance factor.

Wang **discloses** printing patches using a screening algorithm and incorporating at least one output appearance factor (Figs. 2-3, col. 8, lines 30-65; fig. 5, col. 9, lines 53-67).

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Falk discloses generating a calibration from measured color values of the printed patches mapping a color apace for the printed patches to a color space of a printer used to print the patches (Fig. 1, col. 4, lines 35-58).

Falk disclose associating information with the calibration file indicating the printer and at least one output appearance attribute for the use in selecting one calibration file to use when printing a print job (fig. 1, col. 3, lines 55-65; fig. 6, col. 6, lines 5-65), wherein the at least one output appearance attribute provides descriptive information on at least one out put appearance factor incorporated when printing patches (fig. 5, col. 5, lines 6-29).

It would have been obvious to one skilled in the art at the time of the invention to modify Falk wherein gray scale image processes are used to correct image defects and to adjust image to user desired output.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to combine Wang and Falk to achieve the limitations set forth in claim 28.

Regarding claim 30, Faulk disclose the article of manufacture of claim 28, wherein the at least one output appearance factor is a member of a set of printing variables consisting of: toner, paper type, environmental factors, desired output, and target printer to emulate (fig. 2, col. 4, lines 12-38).

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4. Claims 2, 6-8, 16, 20-21, 29, and 33-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Falk (US. 5760913) and Wang (US. 5854882) in view of Lee et al. (US. 6266155).

Regarding claim 2, Falk discloses the method of claim 1.

Faulk **does not disclose** wherein the associated printer information indicates the name of the screening algorithm used in generating the calibration file.

Lee et al. **disclose** wherein the associated printer information indicates the name of the screening algorithm used in generating the calibration file (fig. 2B, col. 4, lines 24-48).

It would have been obvious to one skilled in the art at the time of the invention to modify Falk wherein the process used is identified for later calibration updates.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to combine Lee et al. with Falk and Wang to achieve the limitations set forth in claim 2.

Regarding claim 6, Falk disclose the method of claim 1, further comprising:

Falk does not disclose generating the print job comprising a gray scale image.

Lee et al. **disclose** generating the print job comprising a gray scale image (fig. 3, col. 4, lines 49-67).

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Falk **does not disclose** associating output appearance and printer attribute information with the print job for use in selecting one calibration file to use to calibrate the gray scale image when printing the print job.

Lee et al. **disclose** associating output appearance and printer attribute information with the print job for use in selecting one calibration file to use to calibrate the gray scale image when printing the print job (figs. 4-5, col. 5, lines 1-32).

It would have been obvious to one skilled in the art at the time of the invention to modify Falk wherein gray scale image processes are used to correct image defects and to adjust image to user desired output.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to combine Lee et al. with Falk and Wang to achieve the limitations set forth in claim 6.

Regarding claim 7, Falk discloses the method of claim 6, wherein selecting one calibration file comprises selecting one calibration file having associated output appearance and printer information indicating compatibility with the printer and output appearance information associated with the print job (fig. 4, col. 9, lines 26-46).

Regarding claim 8, Falk discloses the method of claim 7, wherein determining compatibility of a print job and calibration file comprises:

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Searching a directory of calibration files having associated printer information matching the printer information associated with the print job, wherein matching printer information indicates that the printer selected to print the print job matches the printer used to print the patches considered when generating the calibration file (fig. 2, col. 4, lines 12-17 and lines 49-58); and

Selecting from the calibration files generated with the printer associated with the print job one calibration file associated with at least one output appearance attribute that matches that at least one output appearance attribute associated with the print job, wherein the selected calibration file is used to print the print job (Fig. 2, col. 4, lines 4-17 and lines 34-46)

Regarding claim 16, Falk discloses the system of claim 14.

Faulk does not disclose wherein the associated printer information indicates the name of the screening algorithm used in generating the calibration file.

Lee et al. **disclose** wherein the associated printer information indicates the name of the screening algorithm used in generating the calibration file (fig. 2B, col. 4, lines 24-48).

It would have been obvious to one skilled in the art at the time of the invention to modify Falk wherein the process used is identified for later calibration updates.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to combine Lee et al. with Falk and Wang to achieve the limitations set forth in claim 16.

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Regarding claim 20, Falk disclose the system of claim 14, further comprising:

Falk does not disclose generating the print job comprising a gray scale image.

Lee et al. **disclose** generating the print job comprising a gray scale image (fig. 3, col. 4, lines 49-67).

Falk **does not disclose** associating output appearance and printer attribute information with the print job for use in selecting one calibration file to use to calibrate the gray scale image when printing the print job.

Lee et al. **disclose** associating output appearance and printer attribute information with the print job for use in selecting one calibration file to use to calibrate the gray scale image when printing the print job (figs. 4-5, col. 5, lines 1-32).

It would have been obvious to one skilled in the art at the time of the invention to modify Falk wherein gray scale image processes are used to correct image defects and to adjust image to user desired output.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to combine Lee et al. with Falk and Wang to achieve the limitations set forth in claim 20.

Regarding claim 21, Falk discloses the method of claim 20, wherein selecting one calibration file comprises selecting one calibration file having associated output

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appearance and printer information indicating compatibility with the printer and output appearance information associated with the print job (fig. 4, col. 9, lines 26-46).

Regarding claim 29, Falk discloses the article of manufacture of claim 28.

Faulk **does not disclose** wherein the associated printer information indicates the name of the screening algorithm used in generating the calibration file.

Lee et al. **disclose** wherein the associated printer information indicates the name of the screening algorithm used in generating the calibration file (fig. 2B, col. 4, lines 24-48).

It would have been obvious to one skilled in the art at the time of the invention to modify Falk wherein the process used is identified for later calibration updates.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to combine Lee et al. with Falk and Wang to achieve the limitations set forth in claim 29.

Regarding claim 33, Falk disclose the article of manufacture of claim 28, further comprising:

Falk does not disclose generating the print job comprising a gray scale image.

Lee et al. **disclose** generating the print job comprising a gray scale image (fig. 3, col. 4, lines 49-67).

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Falk **does not disclose** associating output appearance and printer attribute information with the print job for use in selecting one calibration file to use to calibrate the gray scale image when printing the print job.

Lee et al. **disclose** associating output appearance and printer attribute information with the print job for use in selecting one calibration file to use to calibrate the gray scale image when printing the print job (figs. 4-5, col. 5, lines 1-32).

It would have been obvious to one skilled in the art at the time of the invention to modify Falk wherein gray scale image processes are used to correct image defects and to adjust image to user desired output.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to combine Lee et al. with Falk and Wang to achieve the limitations set forth in claim 33.

Regarding claim 34, Falk discloses the article of manufacture of claim 33, wherein selecting one calibration file comprises selecting one calibration file having associated output appearance and printer information indicating compatibility with the printer and output appearance information associated with the print job (fig. 2, col. 4, lines 12-58; fig. 4, col. 9, lines 26-46).

5. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Falk (US. 5760913) and Wang (US. 5854882) in view of Gregory, Jr. et al. (US. 5818960)

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Regarding claim 15, Falk discloses the system of claim 14.

Falk does not disclose Wherein the computer system comprises a client computer and a server, wherein the client computer, server, and printer communicate using at least one network communication line, wherein the program logic implemented in the client and server to print patches on the printer, generates the calibration file, associate information with the calibration file, and store the calibration file and associated information in the storage device.

Gregory et al. **disclose** wherein the computer system comprises a client computer and a server, wherein the client computer, server, and printer communicate using at least one network communication line, wherein the program logic implemented in the client and server to print patches on the printer, generates the calibration file, associate information with the calibration file, and store the calibration file and associated information in the storage device (fig. 1, col. 3, lines 27-67; col. 4, lines 1-60).

It would have been obvious to one skilled in the art at the time of the invention to modify Falk wherein the apparatus used in Falk has the capabilities to communicate with multiple devices via a network allowing print job calibration from system other than the one user operation system.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to combine Gregory, Jr. et al. with Falk and Wang to achieve the limitations set forth in claim 15.

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## Claim Objections

6. Claims 9-13, 22-27, and 35-40 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. Claims 4-5, 18-19 and 31-32 are allowed.

The prior art searched and cited failed to overcome the limitation set forth in the present application. The allowable subject matter is cited below.

Regarding claim 4 the allowable subject matter is disclosed as follows:

" printing patches using the <u>selected</u> screening algorithm and incorporating the selected at least one output appearance factor".

"a printer name indicating the selected printer; screening name indicating the selected screening algorithm".

Regarding claim 18 the allowable subject matter is disclosed as follows:

" printing patches using the <u>selected</u> screening algorithm and incorporating the selected at least one output appearance factor".

"a printer name indicating the selected printer; screening name indicating the selected screening algorithm".

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Regarding claim 31 the allowable subject matter is disclosed as follows:

" printing patches using the <u>selected</u> screening algorithm and incorporating the selected at least one output appearance factor".

"a printer name indicating the selected printer; screening name indicating the selected screening algorithm".

### Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Knox et al. (US. 5649073, Sherman et al. (US. 5537516), Rolleston et al. (US. 5416613), Decker et al. (US. 6137596), Naoi (US. 6351263), Sobol (US. 5185673), Spence (US. 5333069), Kotlow (US. 6421620), Cooper et al. (US. 6512597), and Brossman et al. (US. 6498661) are cited to show related art with respect to calibration file and output adjustments.
- 9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tia A Carter whose telephone number is 703 - 306-5433. The examiner can normally be reached on M-F (7:00-3:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly A Williams can be reached on 703-305-4863. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-6056.

Tia A Carter Examiner Art Unit 2626

January 18, 2004

KIMBERLY WILLIAMS
SUPERVISORY PATENT EXAMINER